Table:

DNA sample(s)/source:	2014 Kit Plate #3, well 12A
Chemically competent bacterial strain, symbol:	BL21, stars
Volume of cells used:	50 µL
Quantity of DNA transformed:	5 µL
Additional info: - (did you shorten the ice incubation time to 15 minutes instead of 30 minutes?) - (did you accidentally leave the tube in the incubator to recover for too long?)	

Preparations:

- Preheat water bath to 42°C.
- Fill ice bucket.
- Take a tube of chemically competent cells from our box in the -80°C freezer, and let it thaw on ice. (But don't let it get warm!)
- Thaw DNA sample if necessary.
- If starting with DNA from the parts registry, first locate the correct well for the plasmid you are looking to transform. Transfer 10 µL of dH_2O into the well, using the tip to pierce through the foil covering of only that well. Pipette up and down to resuspend, then wait 5 minutes and repeat.

Procedure:

1) Mix 5 µL of DNA sample into 50 µL (1 tube) of chemically competent cells.
2) Let tubes incubate on ice for 30 minutes.
3) Heat shock tubes by placing them in the 42°C water bath for 30 second.
4) Add 1 mL LB per tube, cap tightly, and incubate on rocker at 37°C for 1 hr.
5) Plate 200 µL on LB + selective media and incubate at 37°C overnight.

Assembled 2015 by Olya Spassibojko. Adapted from 2012. Source: NEB, Dujduan Waraho.